

FIG. 1

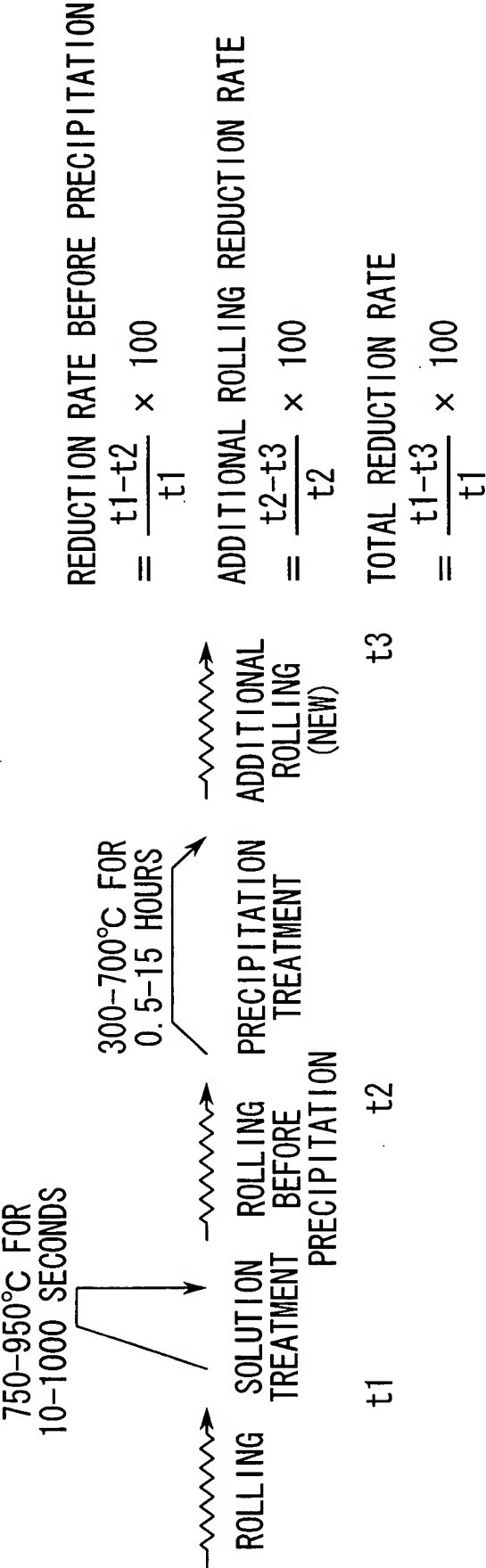


FIG. 2

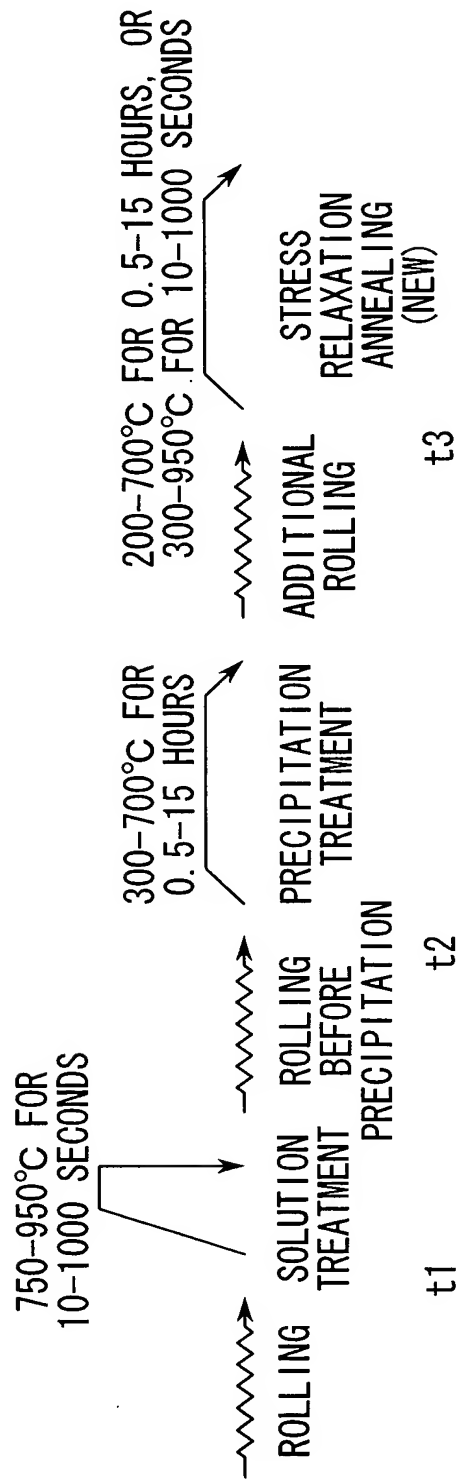


FIG. 3

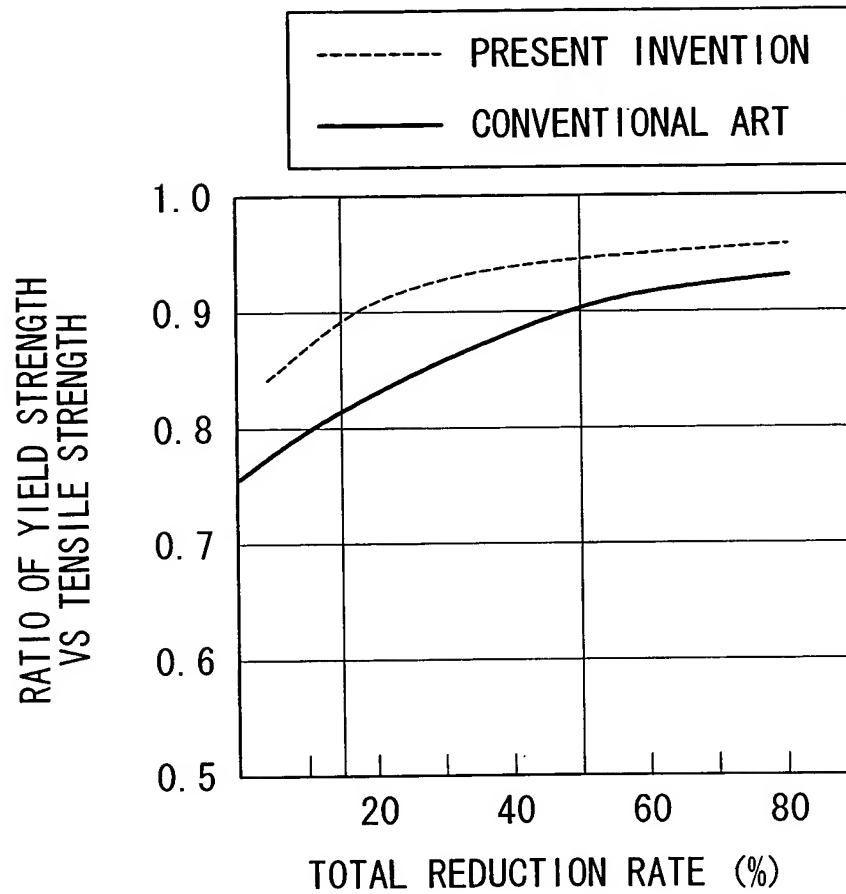


FIG. 4

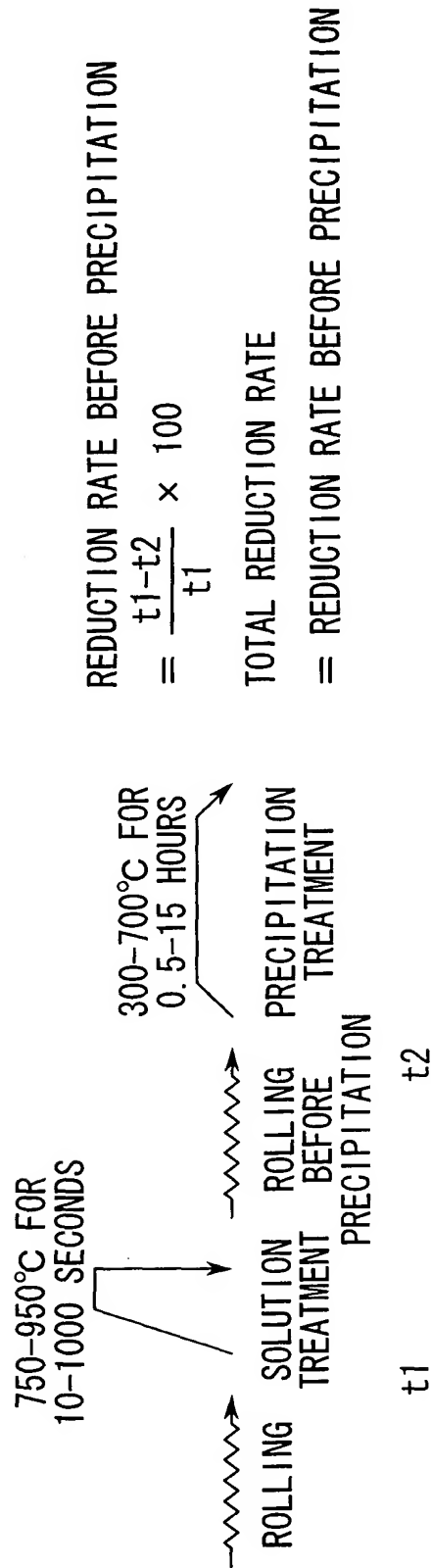


FIG. 5

No.	COMPOSITION		PROCESS CONDITIONS			
	Ti (%)		REDUCTION RATE (%) OF ROLLING BEFORE PRECIPITATION	ADDITIONAL ROLLING REDUCTION RATE (%)	TOTAL REDUCTION RATE (%)	STRESS RELAXATION ANNEALING
EMBODIMENT	1	3.1	15.8	5	20	-
	2	2.9	10	11.1	20	-
	3	3.2	0	30	30	-
	4	3.0	20	12.5	30	-
	5	2.3	20	12.5	30	-
	6	1.1	20	12.5	30	-
	7	3.3	20	37.5	50	-
	8	2.9	10	11.1	20	350°C 3HR. (BATCH FURNACE)
	9	3.1	10	11.1	20	500°C 30SEC. (CONTINUOUS FURNACE)
	10	3.2	20	12.5	30	350°C 3HR. (BATCH FURNACE)
	11	3.0	20	37.5	50	350°C 3HR. (BATCH FURNACE)
COMPARATIVE EXAMPLE	12	3.2	8.2	2	10	-
	13	3.2	25	60	70	-
	14	3.2	10	0	10	-
	15	3.1	20	0	20	-
	16	2.9	30	0	30	-
	17	3.0	50	0	50	-
	18	3.3	70	0	70	-
	19	3.1	20	12.5	30	150°C 10HR. (BATCH FURNACE)
	20	2.9	20	12.5	30	400°C 20HR. (BATCH FURNACE)
	21	0.08	20	12.5	30	-
	22	4.8	20	12.5	30	-

FIG. 6

	TENSILE STRENGTH N/mm ²	YIELD STRENGTH N/mm ²	ELONGATION (%)	CONDUCTIVITY (%)	SPRING LIMIT VALUE N/mm ²	BEND FORMABILITY	STRESS RELAXATION (%)	RATIO OF YIELD STRENGTH VS TENSILE STRENGTH
EMBODIMENT	1	1001	17.8	12.7	315	○	5.7	0.91
	2	989	8.7	12.9	331	○	5.1	0.91
	3	1049	3.0	13.0	492	○	6.2	0.94
	4	1043	3.2	12.6	529	○	5.7	0.94
	5	875	4.3	16.8	378	○	6.2	0.93
	6	672	4.7	18.8	254	○	6.9	0.93
	7	1138	2.3	12.6	372	○	7.4	0.95
	8	990	13.0	13.8	813	○	3.5	0.90
	9	986	12.4	12.8	832	○	5.5	0.90
	10	1040	4.3	13.8	903	○	3.9	0.93
	11	1130	3.2	13.4	1084	○	4.7	0.94
COMPARATIVE EXAMPLE	12	902	19.4	13.5	263	○	5.2	0.88
	13	1224	1.2	9.7	672	○	8.9	0.95
	14	804	25.7	13.4	703	REF.	4.8	0.55
	15	897	20.4	13.8	821	REF.	5.2	0.80
	16	928	16.2	13.5	877	REF.	5.9	0.87
	17	1011	11.7	12.7	982	REF.	7.6	0.89
	18	1066	1.8	11.6	1045	REF.	8.5	0.92
	19	1035	3.1	13.2	559	○	5.8	0.94
	20	987	8.6	17.5	418	×	7.9	0.88
	21	563	6.7	18.9	211	○	15.4	0.83
	22	727	0.9	5.7	496	×	7.5	0.89